

New

# Nemadex Alain Bouquet



## Genetic origin

This variety results from the crossbreeding of a *Vitis vinifera* (Cabernet-Sauvignon x Alicante Henri Bouschet) and *Muscadinia rotundifolia* (NC 184-4) F1 hybrid (VMH 8771) and 140 Ruggeri.

## Name of the variety in France (and usual name)

Nemadex

## Breeder/breeder and year obtained

INRA, 1987.

## Estimated surface area of the French vineyard grafted with this rootstock and main regions of use

10 ha .

## Elements of ampelographic description

The identification is based on:

- the tip of the young shoot that is open with a low density of prostrate hairs,
- the green young leaves with bronze spots,
- the shoots with no erect or prostrate hairs,
- the small to medium, kidney-shaped, entire adult leaves, with an open or very open U-shaped petiole sinus, short teeth compared to their width at the base with convex sides, a smooth, not very thick leaf blade, slightly curly on the edges and involute around the petiole sinus lobes, a weak anthocyanin coloration of veins, and on the lower side of the leaves, a very low density of erect hairs and no prostrate hairs,
- the hermaphrodite flowers,
- the very small, round-shaped berries, with a blue black skin, a slightly colored pulp with a foxy taste,
- the dark brown woody shoots.

## Evolution of mother vine surfaces

Year 2015

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ha 4.8

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## Genetic profile

|          | MicrosatelliteVVS2 | VVMD5 | VVMD7 | VVMD27 | VRZAG62 | VRZAG79 | VVMD25 | VVMD28 | VVMD32 |
|----------|--------------------|-------|-------|--------|---------|---------|--------|--------|--------|
| Allele 1 | 135                | 238   | 231   | 236    | 214     | 258     | 236    | 0      | 249    |
| Allele 2 | 149                | 243   | 245   | 238    | 214     | 260     | 238    | 0      | 251    |

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### Resistance to soil pests

Nemadex Alain Bouquet is very highly tolerant to the root form of phylloxera. It is also partially resistant to *Xiphinema index* nematodes, which delays the infection and slows down the fanleaf virus contamination in the vineyards.

### Aptitudes for vegetative multiplication

Nemadex Alain Bouquet has a bushy and erect bearing, with short internodes. Its wood production is consequently very low (10 to 30 000 m/ha). Nemadex Alain Bouquet has moderate to good cutting and grafting capacities.

### Clonal selection in France

In France, the only certified Nemadex Alain Bouquet clone carries the number 1163 and it is multiplied on 3 has 41 ares of mother vines producing certified material, in 2017.

Datas are extracted from: Les chiffres de la pépinière viticole, 2017, Datas and assesment of FranceAgriMer, may 2018.

### Bibliographic references

- Documentary collections of the Centre de Ressources Biologiques de la Vigne de Vassal-Montpellier, INRAE - Montpellier SupAgro, Marseillan, France.
- Nemadex Alain Bouquet root stock technical data sheet, INRA, 2013, France.

### Adaptation to the environment

Nemadex Alain Bouquet resists up to 15% of "active" limestone and an ICP of 30. Its resistance to iron chlorosis is thus low to moderate. This rootstock is sensitive to temporary water excess during the spring and it is not very resistant to drought.

### Interaction with the graft and production objectives

Nemadex Alain Bouquet confers a rather low vigor and induces moderate yields.



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